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TITLE: DIGITAL SIGNAL PROCESSING CIRCUIT, ITS  
PROCESSING METHOD, DISPLAY DEVICE, LIQUID CRYSTAL DISPLAY  
DEVICE AND LIQUID CRYSTAL PROJECTOR

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*signal processing only*

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ABSTRACT:

PROBLEM TO BE SOLVED: To solve the problem that parts equivalent to a peak and a valley are viewed as lateral lines on a picture since the operation result of linear interpolation becomes a polygonal line when linear interpolation is performed on a vertical direction, and the inclination of the polygonal line becomes sharp when the correction quantity of color unevenness is large.

SOLUTION: Correction data on luminance unevenness in a video, which is displayed on the picture, is stored in RAM 24 at every correction point

obtained by dividing the picture in horizontal and vertical directions at prescribed intervals. Then, correction data on the whole display picture is generated in an interpolation operation by three-dimensional non-linear interpolation in the horizontal direction, the vertical direction, and a gradation direction in an interpolation operation block 25. Generated correction data is added to digital data after various signals are processed by an adder/subtractor 35 and color unevenness is corrected.

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